

Table M-2: Waste Characteristics Data

| Animal Group | Average TAM (kg) | Total Kjeldahl Nitrogen, N_{ex} (kg/day per 1,000 kg mass) | Maximum Methane Generation Potential, B_o (m³ CH₄/kg VS added) | Volatile Solids, VS (kg/day per 1,000 kg mass) | Source |
|---------------------------|---------------------------------|---|---|---|---------------------------------|
| Dairy Cow | 604 | Safley 2000 | 0.44 USDA 1996a | 0.24 Morris 1976 | Table M-3 Peterson et al., 2002 |
| Dairy Heifer | 476 | Safley 2000 | 0.31 USDA 1996a | 0.17 Bryant et. al. 1976 | Table M-3 Peterson et al., 2002 |
| Feedlot Steers | 420 | USDA 1996a | 0.30 USDA 1996a | 0.33 Hashimoto 1981 | Table M-3 Peterson et al., 2002 |
| Feedlot Heifers | 420 | USDA 1996a | 0.30 USDA 1996a | 0.33 Hashimoto 1981 | Table M-3 Peterson et al., 2002 |
| NOF Bulls | 750 | Safley 2000 | 0.31 USDA 1996a | 0.17 Hashimoto 1981 | 6.04 USDA 1996a |
| NOF Calves | 159 | USDA 1998c | 0.30 USDA 1996a | 0.17 Hashimoto 1981 | 6.41 USDA 1996a |
| NOF Heifers | 420 | USDA 1996a | 0.31 USDA 1996a | 0.17 Hashimoto 1981 | Table M-3 Peterson et al., 2002 |
| NOF Steers | 318 | Safley 2000 | 0.31 USDA 1996a | 0.17 Hashimoto 1981 | Table M-3 Peterson et al., 2002 |
| NOF Cows | 590 | Safley 2000 | 0.33 USDA 1996a | 0.17 Hashimoto 1981 | Table M-3 Peterson et al., 2002 |
| Market Swine <60 lbs. | 15.88 | Safley 2000 | 0.60 USDA 1996a | 0.48 Hashimoto 1984 | 8.80 USDA 1996a |
| Market Swine 60-119 lbs. | 40.60 | Safley 2000 | 0.42 USDA 1996a | 0.48 Hashimoto 1984 | 5.40 USDA 1996a |
| Market Swine 120-179 lbs. | 67.82 | Safley 2000 | 0.42 USDA 1996a | 0.48 Hashimoto 1984 | 5.40 USDA 1996a |
| Market Swine >180 lbs. | 90.75 | Safley 2000 | 0.42 USDA 1996a | 0.48 Hashimoto 1984 | 5.40 USDA 1996a |
| Breeding Swine | 198 | Safley 2000 | 0.24 USDA 1996a | 0.48 Hashimoto 1984 | 2.60 USDA 1996a |
| Sheep | 27 | ASAE 1999 | 0.42 ASAE 1999 | NA NA | NA NA |
| Goats | 64 | ASAE 1999 | 0.45 ASAE 1999 | NA NA | NA NA |
| Horses | 450 | ASAE 1999 | 0.30 ASAE 1999 | NA NA | NA NA |
| Hens >/= 1 yr | 1.8 | ASAE 1999 | 0.83 USDA 1996a | 0.39 Hill 1982 | 10.8 USDA 1996a |
| Pullets | 1.8 | ASAE 1999 | 0.62 USDA 1996a | 0.39 Hill 1982 | 9.7 USDA 1996a |
| Other Chickens | 1.8 | ASAE 1999 | 0.83 USDA 1996a | 0.39 Hill 1982 | 10.8 USDA 1996a |
| Broilers | 0.9 | ASAE 1999 | 1.10 USDA 1996a | 0.36 Hill 1984 | 15.0 USDA 1996a |
| Turkeys | 6.8 | ASAE 1999 | 0.74 USDA 1996a | 0.36 Hill 1984 | 9.7 USDA 1996a |

NA = Not Applicable. In these cases, methane emissions were projected based on animal population growth from base year.